



# Weapon System Impact Tool

<https://wsit.xsb.com>

DoD Standardization Conference  
March 14, 2007

Joe Delorie, DSPO



Tue, Mar 13, 2007

ASSIST database last updated: Mar 12, 2007

[What's New? \(updated Jul 14, 2006\)](#)

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The Official Source of  
DoD Standards  
and Specifications



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acquisition streamlining and standardization information system



Document Automation and Production Service, Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.

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## Weapon System Impact Tool



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# Weapon System Impact Tool

Registration

## W.S.I.T. Registration Form

First Name \*

Last Name \*

Email Address \*

Confirm Email Address \*

Phone Number \*

Access Justification \*

255 characters left.

U.S. DoD Employee ? \*

☐ Yes ☒ No

U.S. DoD POC Email

U.S. DoD POC Phone

Submit

Cancel





# Examples of Use



- Standardization
  - If MIL-A-8625 were to be changed or cancelled, what is the overall impact on the F-15?
- Part obsolescence
  - If a manufacturer no longer supplies an o-ring that conforms to MIL-P-25732C, how does that affect my ability to support my weapon system?
- Quality/safety
  - If, on the F-14, a certain titanium bolt that was tested under MIL-B-87114 fails, what other items on this weapon system were tested using that standard?



# Coherent View



- Advanced software for mining and reasoning about jargon-rich unstructured text
  - Artificial intelligence and parsing techniques to structure legacy data
- Contains data from
  - Federal Logistics Information System (FLIS)
  - Standard Automated Material Management System (SAMMS)
  - Business System Modernization (BSM)
  - And others...
- WSIT automatically structures and combines information from these rich data sources into a coordinated picture of relationships between specifications and weapon systems.




## Weapon System Impact Tool

[WHAT'S NEW](#)

### Enter a National Stock Number or Specification Document Number or Weapon System Designator Code

(Sample Inputs: 02F (WSDC) or MIL-STD-130L (Specification) or 5340000000057 (National Stock Number))

 **Lookup:** National Stock Number, Specification Document, Weapon System Designator Code

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#### Query History

##### Today

[None]

##### Yesterday

[None]

##### Older

[None]

#### Advanced search types:

##### Query by National Stock Number (NSN)

Query by NSN allows the user to view all weapon systems the NSN is used in along with the specification documents that govern the use. The results returned by the query include the specification document number, the weapon system designator code and descriptions for each.

##### Query by Weapon System Designator Code (WSDC)

Query by WSDC allows the user to view all specifications which govern the parts in the weapon system. The results returned by the query include the specification document number, a description of the specification, and the number of NSNs in the weapon system governed by the specification.

##### Query by Specification Document Number

This query allows the user to view all the weapon systems affected by a specification. The results returned by the query include the specification document number, a description of the specification, along with the designator code and description for the weapon system. The results returned by the query include the WSDC, a description of the weapon system, and the number of NSNs in the weapon system affected by the specification.

##### Query by Specification Document Number & Weapon System Designator Code (WSDC)

This query allows the user to view all the NSNs affected by a document in a weapon system. The results returned by the query include the NSN, information about where the relationship. The user also has the opportunity to view the underlying raw data.

Follow the [help link](#) for more examples and documentation.

## Query by Weapon System Designator Code

### Search Criteria

\* **Weapon System Designator Code (WSDC)**  [WSDC Lookup](#)

### Query Filters

[Search WSIT](#) [Cancel](#) [Help](#)

[Specifications \(15,946\)](#)

[National Stock Numbers \(132,678\)](#)

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**Weapon System Designator Code (WSDC)[?]** 19F  
**Weapons System Description** AIRCRAFT, EAGLE F-15  
**Service** Air Force  
**Weapons System Type** AIRCRAFT  
**Weapon System Group Code (WSGC)[?]** Most critical/highest priority weapon system or end item. (A)  
**Program Manager[?]** Warner Robins Air Logistics Center (WR-ALC)  
**Location[?]** Robins Air Force Base, Georgia

Results 1 - 50 of 15,946

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Weapon System Designator Code : 19F :: AIRCRAFT, EAGLE F-15

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#	Specification Document Number [?] ▲▼	Document Description [?] ▲▼	No. of NSN References [?] ▲▼
1	<a href="#">QAP-EQ001 [doc]</a>	No title found.	19,246
2	<a href="#">ASQC-Z1.4 [doc]</a>	PROCEDURES, SAMPLING AND TABLES FOR INSPECTION BY ATTRIBUTES	15,388
3	<a href="#">MIL-STD-130K [doc]</a>	IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY	14,523
4	<a href="#">QAP-EQ002 [doc]</a>	No title found.	12,725
5	<a href="#">MIL-STD-130M [doc]</a>	IDENTIFICATION MARKING OF U.S. MILITARY PROPERTY	9,661
6	<a href="#">QAP-EQ003 [doc]</a>	No title found.	9,636
7	<a href="#">QAP-01075 [doc]</a>	No title found.	9,078
8	<a href="#">QAP-01129 [doc]</a>	No title found.	8,840
9	<a href="#">QAP-001 [doc]</a>	ABCA TERRAIN DATA CATALOG (W/AMD 1)	7,301
10	<a href="#">QQ-P-416 [doc]</a>	PLATING, CADMIUM (ELECTRODEPOSITED) (S/S BY SAE-AMS-QQ-P-416)	6,187
11	<a href="#">QQ-P-35 [doc]</a>	PASSIVATION TREATMENTS FOR CORROSION-RESISTANT STEEL (S/S BY ASTM-A967 OR SAE-AMS-QQ-P-35)	4,301
12	<a href="#">MIL-R-55182 [doc]</a>	RESISTORS, FIXED, FILM, ESTABLISHED RELIABILITY, STYLE RN*56 1/ (FOR NEW DESIGN USE MIL-PRF-55182/1)	4,037
13	<a href="#">QAP-003 [doc]</a>	No title found.	3,460
14	<a href="#">FED-STD-313 [doc]</a>	MATERIAL SAFETY DATA, TRANSPORTATION DATA AND DISPOSAL DATA FOR HAZARDOUS MATERIALS FURNISHED TO GOVERNMENT ACTIVITIES	3,160
15	<a href="#">FED-STD-H28/20 [doc]</a>	SCREW-THREAD STANDARDS FOR FEDERAL SERVICES SECTION 20 INSPECTION METHODS FOR ACCEPTABILITY OF UN, UNR, UNJ, M, AND MJ SCREW THREADS	3,011
16	<a href="#">QAP-002 [doc]</a>	No title found.	2,718
17	<a href="#">MIL-A-8625 [doc]</a>	ANODIC COATINGS FOR ALUMINUM AND ALUMINUM ALLOYS	2,433



# Query by Specification Document Number

Search Criteria

\* Specification Document Number MIL-P-25732C

[Spec Lookup](#)

Query Filters

[Search WSIT](#) [Cancel](#) [Help](#)

[Weapon Systems \(689\)](#)

[National Stock Numbers \(904\)](#)

[Download Report](#)

Specification Document Number[?]

MIL-P-25732C

Document Description[?]

PACKING, PREFORMED, PETROLEUM HYDRAULIC FLUID RESISTANT, LIMITED SERVICE AT 275 DEG. F (135 DEG. C)

Document Scope[?]

This specification covers O-ring packings for use with petroleum based hydraulic fluids conforming to MIL-H-5606 and MIL-H-83282 over the temperature range of -65 Deg. to 275 Deg. F (-54 Deg. to 135 Deg. C).

Document Date[?]

2003-08-07 00:00:00.0

FSC Area[?]

Packing and Gasket Materials (5330)

Preparing Activity[?]

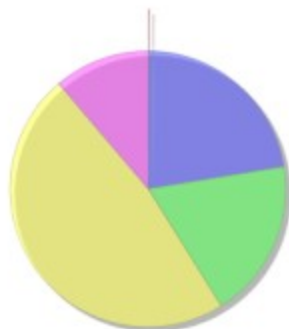
Aeronautical Systems Center (11 )

Distribution Code[?]

Approved for public release; distribution is unlimited. (A)

NOTE: More information about this document can be found on the ASSIST website MIL-P-25732C [doc]

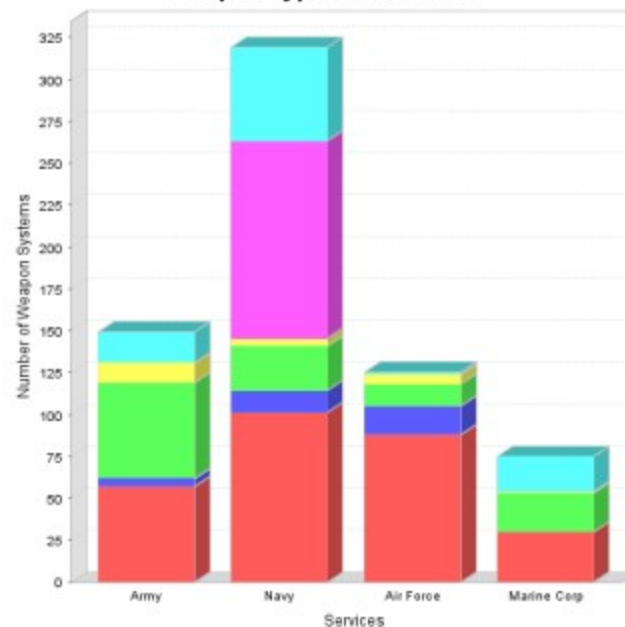
Weapon Systems Per Service



● Coast Guard = 1  
● Army = 149  
● Air Force = 125  
● Navy = 319  
● Marine Corp = 78

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Weapon Types Per Service



■ AIRCRAFT ■ ENGINES ■ LAND ■ MISSILES ■ SHIPS ■ UNKNOWN  
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## Query by Specification Document Number

Search Criteria

\* Specification Document Number  [Spec Lookup](#)

Query Filters

**Weapon Systems (689)**

**National Stock Numbers (904)**

**Download Report**

<b>Specification Document Number[?]</b>	MIL-P-25732C
<b>Document Description[?]</b>	PACKING, PREFORMED, PETROLEUM HYDRAULIC FLUID RESISTANT, LIMITED SERVICE AT 275 DEG. F (135 DEG. C)
<b>Document Scope[?]</b>	This specification covers O-ring packings for use with petroleum based hydraulic fluids conforming to MIL-H-5606 and MIL-H-83282 over the temperature range of -65 Deg. to 275 Deg. F (-54 Deg. to 135 Deg. C).
<b>Document Date[?]</b>	2003-08-07 00:00:00.0
<b>FSC Area[?]</b>	Packing and Gasket Materials (5330)
<b>Preparing Activity[?]</b>	Aeronautical Systems Center (11 )
<b>Distribution Code[?]</b>	Approved for public release; distribution is unlimited. (A)
<b>NOTE:</b> More information about this document can be found on the ASSIST website MIL-P-25732C <a href="#">[doc]</a>	

**Top 10 Federal Supply Classes**



- O-RING (5331) = 693 ● PACKING AND GASKET MATERIALS (5330) = 141
- UNKNOWN CLASS (0000) = 17 ● VALVES, NONPOWERED (4820) = 9
- HOSE, PIPE, TUBE, LUBRICATION, AND RAILING FITTINGS (4730) = 8
- MISCELLANEOUS VEHICULAR COMPONENTS (2590) = 4
- VEHICULAR BRAKE, STEERING, AXLE, WHEEL, AND TRACK COMPONENTS (2530) = 4
- MISCELLANEOUS POWER TRANSMISSION EQUIPMENT (3040) = 3
- POWER AND HAND PUMPS (4320) = 3
- VEHICULAR POWER TRANSMISSION COMPONENTS (2520) = 3

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**Top 10 Item Name Codes**



- O-RING (47946) = 687 ● PACKING, PREFORMED (D4521) = 103 ● UNKNOWN INC (00000) = 46
- GASKET (D4522) = 5 ● CYLINDER ASSEMBLY, ACTUATING, LINEAR (31310) = 3
- SEAL, NONMETALLIC ROUND SECTION (30873) = 3
- VALVE, REGULATING, FLUID PRESSURE (27005) = 3
- COUPLING HALF, QUICK DISCONNECT (18081) = 2 ● FILTER, FLUID (32022) = 2
- PACKING (77777) = 2

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## Query by Specification and WSDC

### Search Criteria

\* **Specification Document Number**  ☐ [Spec Lookup](#)  
 \* **Weapon System Designator Code (WSDC)**  ☐ [WSDC Lookup](#)

### Query Filters

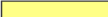
Results 1 - 28 of 28

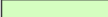
Specifications Document Number : MIL-B-87114 :: BOLTS, RECESS DRIVE, GENERAL SPECIFICATION FOR (S/S BY NAS4002 AND NAS4003) AND Weapon System Designator Code : 10N :: AIRCRAFT, TOMCAT F-14

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#	National Stock Number (NSN) [?] ▲ ▼	Item Name (INC) [?] ▲ ▼	Relationship {RNCC,RNVC} [?] ▲ ▼
1	<a href="#">5305-00-099-7659 [Context]</a>	SCREW,MACHINE (06657)	
2	<a href="#">5305-00-139-3223 [Context]</a>	SCREW,MACHINE (06657)	
3	<a href="#">5305-00-159-5556 [Context]</a>	SCREW,MACHINE (06657)	
4	<a href="#">5305-00-262-0356 [Context]</a>	SCREW,MACHINE (06657)	
5	<a href="#">5305-00-288-2457 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
6	<a href="#">5305-00-316-8123 [Context]</a>	SCREW,MACHINE (06657)	
7	<a href="#">5305-00-889-2658 [Context]</a>	SCREW,CAP,SOCKET HEAD (16282)	
8	<a href="#">5305-00-917-6278 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
9	<a href="#">5305-01-010-3680 [Context]</a>	SCREW,MACHINE (06657)	
10	<a href="#">5305-01-014-8455 [Context]</a>	SCREW,MACHINE (06657)	
11	<a href="#">5305-01-043-1860 [Context]</a>	SCREW,MACHINE (06657)	
12	<a href="#">5305-01-057-9328 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
13	<a href="#">5305-01-063-5060 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
14	<a href="#">5305-01-076-3163 [Context]</a>	SCREW,CAP,SOCKET HEAD (16282)	
15	<a href="#">5305-01-112-1755 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
16	<a href="#">5305-01-160-1963 [Context]</a>	SCREW,MACHINE (06657)	
17	<a href="#">5305-01-168-1756 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
18	<a href="#">5305-01-180-4758 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
19	<a href="#">5305-01-193-6860 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
20	<a href="#">5305-01-194-7061 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
21	<a href="#">5305-01-313-8057 [Context]</a>	SCREW,MACHINE (06657)	
22	<a href="#">5305-01-349-5262 [Context]</a>	SCREW,MACHINE (06657)	
23	<a href="#">5305-01-360-9161 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
24	<a href="#">5305-01-360-9163 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	
25	<a href="#">5305-01-365-0863 [Context]</a>	SCREW,MACHINE (06657)	
26	<a href="#">5305-01-374-9825 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	{4,1} A non-definitive R/N developed from a government specification or standard which is not item identifying.
27	<a href="#">5305-01-374-9918 [Context]</a>	SCREW,MACHINE (06657)	{4,1} A non-definitive R/N developed from a government specification or standard which is not item identifying.
28	<a href="#">5305-01-416-5258 [Context]</a>	SCREW,CLOSE TOLERANCE (29294)	

 This the **controlling specification** for the specified National Stock Number (NSN).

 This specification has a **registered relationship** with the specified National Stock Number (NSN).



Source Context

## Weapon System Impact Tool

SAVE

<b>National Stock Number (NSN)</b>	5305010103680	SCREW,MACHINE
<b>Specification Document Number</b>	MIL-B-87114	BOLTS, RECESS DRIVE, GENERAL SPECIFICATION FOR (S/S BY NAS4002 AND NAS4003)
<b>Weapon System Designator Code (WSDC)</b>	10N	AIRCRAFT, TOMCAT F-14

### Specification Document Number Context

This specification was found by doing a text scan. The source information was found in **the CTDF Procurement Identification Description [?]**, and is maintained **in the Contract Technical Data File (CTDF) [?]** at Defense Industrial Supply Center .

#### Line Text [?]

SCREW, MACHINE  
 CRES, PASSIVATED  
 QUALITY CONFORMANCE SHALL BE I/A/W  
 MIL-B-87114 EXCEPT AS NOTED ON THE  
 AIA (NAS) STANDARD

### Weapon System Context

This weapon system was found using a lookup query. The source information was found in **the BSM Weapon Systems table [?]**, and is maintained **in the Business Modernization System (BSM) [?]**.

This weapon system was found using a lookup query. The source information was found in **the CTDF Weapon Systems table [?]**, and is maintained **in the Contract Technical Data File (CTDF) [?]** at Defense Industrial Supply Center .

# Query by National Stock Number

Search Criteria

\* National Stock Number (NSN) 5305010103680

[NSN Lookup](#)

Query Filters

[Search WSIT](#) [Cancel](#) [Help](#)

[Specifications \(13\)](#)

[Weapon Systems \(9\)](#)

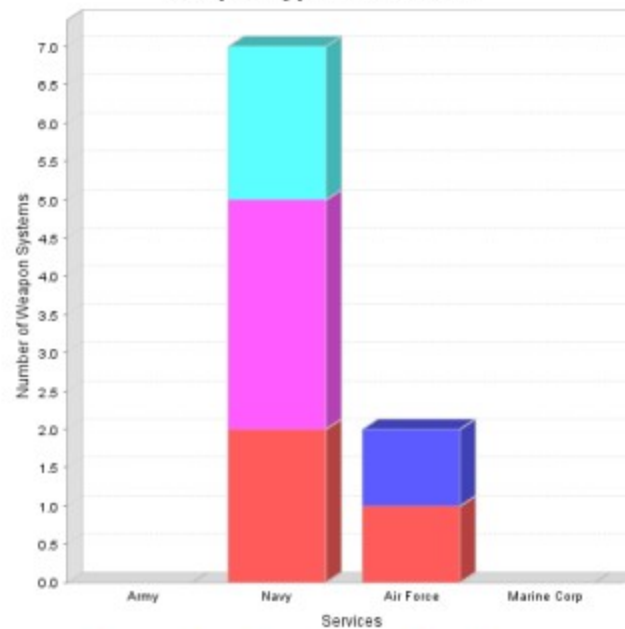
[Specifications & Weapon System \(135\)](#)

[Procurement History \(6\)](#)

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National Stock Number (NSN)[?]	5305-01-010-3680
Item Name	SCREW,MACHINE (06657)
Center[?]	Defense Industrial Supply Center (I)
Status[?]	Item is active. File data coded KFD is forwarded. if this KFD data represents your item of supply, submit, if applicable, an LAD, LAU, or LCU transaction. Otherwise, use the National Stock Number (NSN) in your supply system. (0)
Annual Demand Quantity[?]	550
Annual Demand Frequency[?]	3
Weapon System Group Code (WSGC)[?]	Unknown
Weapon System ESSEN Code[?]	Unknown
Flight Safety Indicator[?]	Unknown
First Article Testing Indicator[?]	N
Qualified Product List Code[?]	

Weapon Types Per Service



AIRCRAFT ENGINES LAND MISSILES SHIPS UNKNOWN

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# Weapon System Impact Tool



- **Easy to use automated system providing correlation between standardization documents and weapon systems**
- **Standardization.**
  - If MIL-A-8625 were to be changed or cancelled what is overall impact on the F-15?
  - MIL-A-8625 affects more than 2,400 parts on the F-15
- **Part obsolescence.**
  - If a manufacturer no longer supplies an o-ring that conforms to MIL-P-25732C, how does that affect my ability to support my weapon system?
  - Parts conforming to MIL-P-25732C are used on 689 different weapon systems
- **Quality/safety.**
  - If, on the F-14, a certain titanium bolt that was tested under MIL-B-87114 fails, what other items on this weapon system were tested using that standard?
  - 28 NSNs (mostly machine screws) on the F-14 are subject to MIL-B-87114



# Future Versions

---

- Ontology of specifications
  - Better support for OEM specifications
  - Better understanding of the knowledge that specifications imply about the parts which they govern
- Next higher assembly information
  - Where on the weapon system a NSN is used.
  - Sub-systems and components will be obtained from the IETM structure
- Information from service level database
  - Currently limited to DLA (Purple) databases



# Questions?



Weapon System Impact Tool

XSB, Inc. | Defense Standardization Program



<https://wsit.xsb.com>

To request access (non-DoD),  
Contact: Ronald Zabielski, DSPO  
703-767-687

E-mail: [ronald.zabielski@dla.mil](mailto:ronald.zabielski@dla.mil)